Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	2	("20020186219").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/03/17 09:31
S2	4	("4321610").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/03/17 12:23
S3	68938	(((345/$)!.ccls.)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/09/09 14:23
S4	0	("l2and@ad<20010607").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/09/09 14:23
S5	55196	((((("345"/$)!.ccls.)).CCLS.) and @ad<"20010607"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/09/09 14:23
S6	570	(((((("345"/$)!.ccls.)).CCLS.) and @ad<"20010607") and slope and (straight near line)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/08 16:11
S7	254	((((((("345"/$)!.ccls.)).CCLS.) and @ad<"20010607") and slope and (straight near line)) and dot$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/09/09 14:24
S8	131	((((((("345"/$)!.ccls.)).CCLS.) and @ad<"20010607") and slope and (straight near line)) and (pixel near data)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/09/09 14:24
S9	129	(((((((("345"/$)!.ccls.)).CCLS.) and @ad<"20010607") and slope and (straight near line)) and (pixel near data)) and memory and stor$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/09/09 14:24

S10	31	((((((("345"/$)!.ccls.)).CCLS.) and @ad<"20010607") and slope and (straight near line)) and (draw$4 with dot$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/09/09 14:24
S11	13	(((((((("345"/$)!.ccls.)).CCLS.) and @ad<"20010607") and slope and (straight near line)) and (pixel near data)) and memory and stor$4) and (dotted with line)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/09/09 14:24
S12	837	((((345/441)!.ccls.)).CCLS.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/09/09 14:25
S13	781	(((((345/441)!.ccls.)).CCLS.)) and (((((("345"/$)!.ccls.)).CCLS.) and @ad<"20010607")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/09/09 14:26
S14	3	((((((345/441)!.ccls.)).CCLS.)) and (((((("345"/$)!.ccls.)).CCLS.) and @ad<"20010607")) and (((((((("345"/$)!.ccls.)).CCLS.) and @ad<"20010607") and slope and (straight near line)) and (pixel near data)) and memory and stor$4) and (dotted with line))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/09/09 14:26
S15	0	line near side near by near side	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/08 16:08
S16	6	side near by near side	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/08 16:09
S17	0	S16 and line and pixel	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/08 16:08
S18	64463	(((345/$)!.ccls.)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/08 16:10

S19	0	("l2and@ad<20010607").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/08 16:09
S20	50015	S18 and @ad <= "20010706"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/08 16:24
S21	568	S20 and slope and (straight near line)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/08 16:16
S22	66	S21 and width and wider	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/08 16:22
S23	52	S22 and parallel	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/08 16:22
S24	51	S23 and drawing	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/08 16:12
S25	17	S24 and (single near line)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/08 16:12
S26	10906	S20 and resolution	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/08 16:17
S27	1071	S26 and dotted	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/08 16:17
S28	856	S27 and (dotted near lines)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/08 16:20

S29	2	S28 and (drawing near dotted)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/08 16:18
S30	456	drawing adj (dotted near lines)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/08 16:28
S31	372	S30 and @ad <= "20010706"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/08 16:22
S32	194	S31 and parallel	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/08 16:22
S33	15	S32 and width and wider	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/08 16:22
S34	24	pixel and drawing adj (dotted near lines)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/08 16:23
S35	16	S34 and @ad <= "20010706"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/08 16:24
S36	2	(image near drawing) adj5 (dotted near lines)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/08 16:28

Terms used **Line drawing** Found **17,665** of **852,541**

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61 Programming languages as operating systems (or revenge of the son of the lisp machine)
Matthew Flatt, Robert Bruce Findler, Shriram Krishnamurthi, Matthias Felleisen
September 1999 **ACM SIGPLAN Notices , Proceedings of the fourth ACM SIGPLAN international conference on Functional programming**, Volume 34 Issue 9
Full text available: pdf(1.30 MB) Additional Information: full citation, abstract, references, citings, index terms

The MrEd virtual machine serves both as the implementation platform for the DrScheme programming environment, and as the underlying Scheme engine for executing expressions and programs entered into DrScheme's read-eval-print loop. We describe the key elements of the MrEd virtual machine for building a programming environment, and we step through the implementation of a miniature version of DrScheme in MrEd. More generally, we show how MrEd defines a high-level operating system for graphical prog ...

62 Indexing of Technical Line Drawing Databases
Tanveer Syeda-Mahmood
August 1999 **IEEE Transactions on Pattern Analysis and Machine Intelligence**, Volume 21 Issue 8
Full text available: Publisher Site Additional Information: full citation, abstract, references, index terms

Abstract¿Image indexing, namely, the problem of retrieving content information from images in response to queries, is a key problem underlying the operations in image databases. In this paper we present a method of indexing for 3D object queries in a database of a class of images called technical line drawings. Indexing is achieved as a combination of query-specific region selection and object recognition. The selection phase isolates relevant images and the regions in these images that are like ...

Keywords: Image databases, technical line drawings, line-labeling, region selection, grouping, recognition, search.

63 Reviewed papers: Graphics for free
Martin C. Carlisle
June 1999 **ACM SIGCSE Bulletin**, Volume 31 Issue 2
Full text available: pdf(486.48 KB) Additional Information: full citation, abstract, references, citings

Students find computer graphics one of the most interesting topics in computer science. Unfortunately, writing programs with graphics requires understanding concepts that are usually beyond the scope of an introductory computer science course. For example, in Windows 95, a program that uses graphics must have an event loop that dispatches messages to the appropriate handler. Event loops, messages, and handlers are well beyond

the grasp of someone just learning about variables! Consequently, prog ...

64 Interactive technical illustration

Bruce Gooch, Peter-Pike J. Sloan, Amy Gooch, Peter Shirley, Richard Riesenfeld

April 1999 **Proceedings of the 1999 symposium on Interactive 3D graphics**

Full text available: pdf(641.05 KB) Additional Information: full citation, references, citings, index terms

Keywords: hardware rendering, illustration, interaction, lighting models, material properties, non-photorealistic rendering, silhouettes

65 Drawing the Red Line in Java

Godmar Back, Wilson Hsieh

March 1999 **Proceedings of the The Seventh Workshop on Hot Topics in Operating Systems**

Full text available: Publisher Site Additional Information: full citation, abstract, citings

Software-based protection has become a viable alternative to hardware-based protection in systems based on languages such as Java, but the absence of hardware mechanisms for protection has been coupled with an absence of a user/kernel boundary. We show why such a "red line" must be present in order for a Java virtual machine to be as effective and as reliable as an operating system. We discuss how the red line can be implemented using software mechanisms, and explain the ones we use in the Java ...

Keywords: Java, red line, kernel structure, type safety, resource control, sharing, termination

66 Alignment and Matching of Bilingual English–Chinese News Texts

Donghua Xu, Chew Lim Tan

March 1999 **Machine Translation**, Volume 14 Issue 1

Full text available: Publisher Site Additional Information: full citation, abstract

This paper presents a project to align and match bilingual English–Chinese news files downloaded from the China News Service's website. The work involves the alignment of bilingual texts at the sentence and clause levels. It addition, the work also requires matching of files as the English and Chinese news files downloaded from the web do not come in the same sequential order. These news files have their own characteristics and, furthermore, the issue of file-matching has i ...

Keywords: dynamic programming, file matching, genetic algorithm, news files, text alignment

67 A near-linear area bound for drawing binary trees

Timothy M. Chan

January 1999 **Proceedings of the tenth annual ACM-SIAM symposium on Discrete algorithms**

Full text available: pdf(735.14 KB) Additional Information: full citation, references, index terms

68 Graphics for free

Martin C. Carlisle

September 1998 **ACM SIGAda Ada Letters**, Volume XVIII Issue 5

Full text available: pdf(277.23 KB) Additional Information: full citation, abstract, index terms

Students find computer graphics one of the most interesting topics in computer science. Unfortunately, writing programs with graphics requires understanding concepts that are usually beyond the scope of an introductory computer science course. For example, in Windows 95, a program that uses graphics must have an event loop that dispatches messages to the appropriate handler. Event loops, messages and handlers are well beyond the grasp of someone just learning about variables! As a result, progra ...

69 A New Approach for Intelligent Object Picking in Line Drawing Images

August 1998 **Proceedings of the 14th International Conference on Pattern Recognition-Volume 2 - Volume 2**

Full text available: Publisher Site Additional Information: full citation

70 Graphical definitions: expanding spreadsheet languages through direct manipulation and gestures

Margaret M. Burnett, Herkimer J. Gottfried

March 1998 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 5 Issue 1

Full text available: pdf(1.64 MB) Additional Information: full citation, abstract, references, citings, index terms, review

In the past, attempts to extend the spreadsheet paradigm to support graphical objects, such as colored circles or user-defined graphical types, have led to approaches featuring either a direct way of creating objects graphically or strong compatibility with the spreadsheet paradigm, but not both. This inability to conveniently go beyond numbers and strings without straying outside the spreadsheet paradigm has been a limiting factor in the applicability of s ...

Keywords: direct manipulation, forms/3, gestures, programming by demonstration

71 Graphpak: a tool-builder's approach to graphical data presentation

Walt Niehoff

March 1998 **ACM SIGAPL APL Quote Quad**, Volume 28 Issue 3

Full text available: pdf(1.41 MB) Additional Information: full citation, abstract, citings, index terms

There have been several APL Quote Quad papers published in the past few years that discuss requirements for APL graphics capabilities. The Graphpak workspace now distributed with IBM's APL2 products evolved from its 1970 roots in an environment that projected similar requirements. This paper discusses the characteristics of Graphpak that have contributed to its evolving application and its longevity. Following an introduction that describes its evolution, the paper will focus on its "tool box" a ...

72 Modeling and generating sign language as animated line drawings

Frank Godenschweger, Thomas Strothotte

January 1998 **Proceedings of the third international ACM conference on Assistive technologies**

Full text available: txt(20.34 KB) Additional Information: full citation, references, index terms

73 3DSketch: modeling by digitizing with a smart 3D pen

Song Han, Gérard Medioni

November 1997 **Proceedings of the fifth ACM international conference on Multimedia**

Full text available: pdf(1.10 MB) Additional Information: full citation, references, citings, index terms

Keywords: 3D authoring tools, hand gestures, human-computer interface, multimodal

input

74 A Coarse Vectorization as an Initial Representation for the Understanding of Line Drawing Images
Jean-Yves Ramel, Nicole Vincent, Hubert Emptoz
August 1997 **Selected Papers from the Second International Workshop on Graphics Recognition, Algorithms and Systems**
Additional Information: full citation

75 Directional Decomposition of Line-Drawing Images Based on Regulated Morphological Operations
Gady Agam, Its'hak Dinstein
August 1997 **Selected Papers from the Second International Workshop on Graphics Recognition, Algorithms and Systems**
Additional Information: full citation

76 Antialiasing of curves by discrete pre-filtering
A. E. Fabris, A. R. Forrest
August 1997 **Proceedings of the 24th annual conference on Computer graphics and interactive techniques**
Full text available: pdf(92.37 KB) Additional Information: full citation, references, citings, index terms

Keywords: Be´zier curves, pre-filtering

77 Topological Reconstruction of a Smooth Manifold-Solid from Its Occluding Contour
Lance R. Williams
May 1997 **International Journal of Computer Vision**, Volume 23 Issue 1
Full text available: Publisher Site Additional Information: full citation, abstract, references, index terms

This paper describes a simple construction for building a combinatorial model of a smooth manifold-solid from a labeled-figure representing its occluding contour. The motivation is twofold. First, deriving the combinatorial model is an essential intermediate step in the visual reconstruction of solid-shape from image contours. A description of solid-shape consists of a metric and a topological component. Both are necessary: the metric component specifies how the topological component is ...

78 Accurate high level datapath power estimation
J. E. Crenshaw, M. Sarrafzadeh
March 1997 **Proceedings of the 1997 European conference on Design and Test**
Full text available: pdf(745.14 KB) Publisher Site Additional Information: full citation, abstract

The cubic switching table is a new data structure for estimating datapath switching at a high level. It is constructed during behavioral simulation, and is used to estimate the switching for any particular datapath schedule and binding. Time to extract the estimate from the table is independent of the original simulation size. For n operations in the RTL description, it takes O(n/sup 3/) time to perform the extraction. We show that an exact switching table would require exponential size, but exp ...

Keywords: RTL description, behavioral simulation, cubic switching table, data structure, data structures, datapath power estimation, datapath switching, exact switching table,

simulation size

79 Manual and compiler for the terse and modular language DEM

Chris Houser

December 1996 **ACM SIGPLAN Notices**, Volume 31 Issue 12

Full text available: pdf(683.14 KB) Additional Information: full citation, abstract, index terms

This paper describes the DEM language and presents a small DEM to C++ translator written in Perl 5. DEM is a terse language for writing modular programs. DEM programs compile to C++ programs, typically swelling three times. Many modifications changing only a few lines of a DEM program change many more lines in the resulting C++ program. DEM is a simplified and streamlined version of the Demeter System (Lieberherr91).

80 Ambiguous intentions: a paper-like interface for creative design

Mark D. Gross, Ellen Yi-Luen Do

November 1996 **Proceedings of the 9th annual ACM symposium on User interface software and technology**

Full text available: pdf(1.20 MB) Additional Information: full citation, references, citings, index terms

Keywords: ambiguity and imprecision, design environments, drawing, graphical techniques, pen based systems